Contents Volume 129, 1997

Research Papers

Sea-level change along the French Atlantic and Channel coasts since the time of the Last Glacial Maximum
K. Lambeck 1

Depositional model of a Cenomanian–Turonian extensional basin (Sopeira Basin, NE Spain): interplay between tectonics, eustasy and biological productivity
E. Caus, A. Teixell and J.M. Bernaus 23

Lateritic bauxite in central Germany and implications for Miocene palaeoclimate
T. Schwarz 37

Variety and relationships of weathering features along the early Tertiary palaeosurface in the southwestern French Massif Central and the nearby Aquitaine Basin
R. Simon-Coinçon, M. Thiry and J.-M. Schmitt 51

Taphonomy of mammalian fossils across the Blancan–Irvingtonian boundary: Palm Spring Formation, Anza–Borrego desert of southern California
M. Cassiliano 81

Silurian *Thalassinoides* in an offshore carbonate community, Wisconsin, USA
R. Watkins and P.J. Coorough 109

Bivalve molluscs and Cenozoic paleoclimatic events in the northwestern Pacific Ocean
A.I. Kafanov and I.V. Volvenko 119

25,000-year late Quaternary records of carbonate preservation in the South China Sea
M.-T. Chen, C.-Y. Huang and K.-Y. Wei 155

The stable isotope record of environmental and climatic signals in modern terrestrial microbial carbonates from Europe
J.E. Andrews, R. Riding and P.F. Dennis 171

Book Reviews

The Permian of Northern Pangea by P.A. Scholle et al.—K.W. Glennie 191

Trace Fossils: Biology, Taphonomy and Applications by R.G. Bromley—A.A. Ekdale 193

Research Papers

Foraminiferal dissolution at shallow depths of the Walvis Ridge and Rio Grande Rise during the latest Cretaceous: Inferences for deep-water circulation in the South Atlantic
M. Kucera, B.A. Malmgren and U. Sturesson 195

Diatom distribution in Southern Ocean surface sediments (Atlantic sector): Implications for paleoenvironmental reconstructions
U. Zielinski and R. Gersonde 213

A new approach to paleoclimatic research using linear programming
M.J. Kuby, R.S. Cerveny and R.I. Dorn 251

Ordovician oxygen isotopes and paleotemperatures
K.J. Tobin and K.R. Walker 269

Palynofacies analysis of sediments from the Côte d'Ivoire–Ghana transform margin: Preliminary correlation with some regional events in the Equatorial Atlantic
F.E. Oboh-Ikuenobe, O. Yepes and ODP Leg 159 Scientific Party 291

"Warm" palaeotemperatures from high Late Jurassic palaeolatitudes (Falkland Plateau): Ecological, environmental or diagenetic controls?
G.D. Price and B.W. Sellwood 315

Palynomorphs of ice rafted clastic sedimentary rocks in Late Quaternary glacial marine sediments of the Norwegian Sea as provenance indicators
J. Bischof, J.J. Lund and H.H. Ecke 329

Messinian evaporites in Zakynthos, Greece
N. Kontopoulos, A. Zelilidis, D.J.W. Piper and P.J. Mudie 361

Diagenetic and palaeogeographic significance of clay, carbonate and other sedimentary components in the middle Devonian limestones of western Ardenne, France
H. Chamley, J.-N. Proust, J.-L. Mansy and F. Boulvain 369

Lower Eocene alluvial paleosols: Pedogenic development, stratigraphic relationships, and paleosol/landscape associations
M.J. Kraus 387
Late Quaternary vegetation, climate and fire history from the tropical mountain region of Morro de Itapeva, SE Brazil
H. Behling 407

Book Review
Quaternary of South America and Antarctic Peninsula, vol. 9 by J. Rabassa and M. Salemme — V. Markgraf 423